

IN THE CLAIMS

Please amend claim 1 and cancel claim 8 as follows:

1. (CURRENTLY AMENDED) A network comprising:
a first network node having a first storage with a topology of said network; and
a second network node having a second storage with said topology, wherein
communication signals are transmitted between said first and second network nodes;
wherein said first and second storages are updated in response to network topology
changes, and said first and second network nodes are addressable by one or more parameters that are
useable to selectively communicate data, and a master transmitter sets the basic frequency and phase of
said network and said first and second network nodes.
2. (ORIGINAL) The network of claim 1, wherein said first and second network nodes are
positioning devices capable of sending and receiving data wirelessly.
3. (ORIGINAL) The network of claim 2 wherein said one or more parameters comprise
spatial parameters for said first and second network nodes, said spatial parameters to include at least
one of a position parameter and velocity parameter.
4. (ORIGINAL) The network of claim 1, wherein said network is self-configuring in that
a new node may join said network by protocol sharing, and said topology of the first and second
storages will be automatically updated to reflect the addition of said new node to the network.
5. (ORIGINAL) The network of claim 1, wherein said communication signals include
non-position data and relative position information.
6. (ORIGINAL) The network of claim 1, wherein relative position information is derived
from said communication signals using triangulation techniques.

7. (ORIGINAL) The network of claim 1, further comprising weak-position-signal nodes and strong-position-signal nodes, and wherein said communication signals are transmitted to said weak-position-signal nodes by being relayed through said strong-position-signal nodes.

8. (CANCELED)

9. (ORIGINAL) The network of claim 1, further comprising a plurality of navigation beacons which transmit position signals to said first and second network nodes, and wherein said first and second network nodes are position transponders.

10. (ORIGINAL) The network of claim 9, wherein said communication signals are synchronized to said position signals.

11. (ORIGINAL) The network of claim 1, wherein said communication signals are used as ranging signals for other network nodes, said other network nodes to determine signal propagation time using signal time tagging.

12. (ORIGINAL) The network of claim 9, wherein said position signals are usable for determining absolute positioning information for said first and second network nodes.

13. (ORIGINAL) The network of claim 12, wherein said communication signals include non-position data and absolute position information.

14. (ORIGINAL) The network of claim 9, wherein said communication signals substitute for said position signals in determining network node position information.

15. (ORIGINAL) The network of claim 14, wherein said communication signals are used to provide frequency and signal phase assistance in the determination of node position information.

16. (ORIGINAL) The network of claim 15, wherein said frequency and signal phase assistance is used by said first network node to detect attenuated positioning signals from said plurality of navigation beacons.

17.-48. (WITHDRAWN)